



D0 Status Report

7/31/2006

Taka Yasuda
Fermilab



Data Taking for 7/24 – 7/30



Day	Delivered	Recorded	Eff.	Comments
7/24 (Mon)	2.64 pb ⁻¹	2.52 pb ⁻¹	95 %	2 nd best efficiency in Run II.
7/25 (Tue)	0.15 pb ⁻¹	0.07 pb ⁻¹	44 %	Controlled access to work on PDT. Power outage and recovery.
7/26 (Wed)	4.19 pb ⁻¹	3.16 pb ⁻¹	76 %	Solenoid off and Luminosity HV trip caused 1 hour downtime at the start of store 4857. Lost 1 hour during L2 special runs.
7/27 (Thu)	5.03 pb ⁻¹	3.54 pb ⁻¹	70 %	Controlled access to work on PDT, and L2 input from MDT. Lost 2 hours due to the problem in L2 input from MDT during store 4859.
7/28 (Fri)	2.74 pb ⁻¹	2.04 pb ⁻¹	75 %	Lost a Silicon LV PS. Took special runs for L1 Cal calibration.
7/29 (Sat)	0.65 pb ⁻¹	0.51 pb ⁻¹	79 %	10 hour Controlled access to replace the Silicon supply. Also worked on PDTs.
7/30 (Sun)	5.19 pb ⁻¹	4.40 pb ⁻¹	85 %	45 min downtime due to missing inputs to L2 from PDT. Lost Solenoid supply for 1 hour. The highest recorded luminosity in a day.
7/24-7/30	20.59 pb ⁻¹	16.24 pb ⁻¹	79 %	



Power Outage on 7/25



- Solenoid dump switch opened at loss of commercial power, initiating a fast dump that triggered a quench.
 - Solenoid temp rose to 29K.
 - It was re-cooled within 15–20 min.
- Mycom compressor stayed running, but did not have wet or dry engines during the outage.
 - Lost about 1300L of He.
- Mycom compressor tripped later, causing a Solenoid lead to leak He.
 - Needed to warm up the lead to seal the leak during the beginning of store 4857.
 - Solenoid off for two hours in store 4857.
- Had a water supply switch for a humidifier stick open and overfilled a water pan. The overflow water rained in MCH1.
- All subdetector systems came up ok.
 - Two HV pods lost in MDT.
 - Three L1 Muon cards needed to be replaced.



10 Hour Access on 7/29

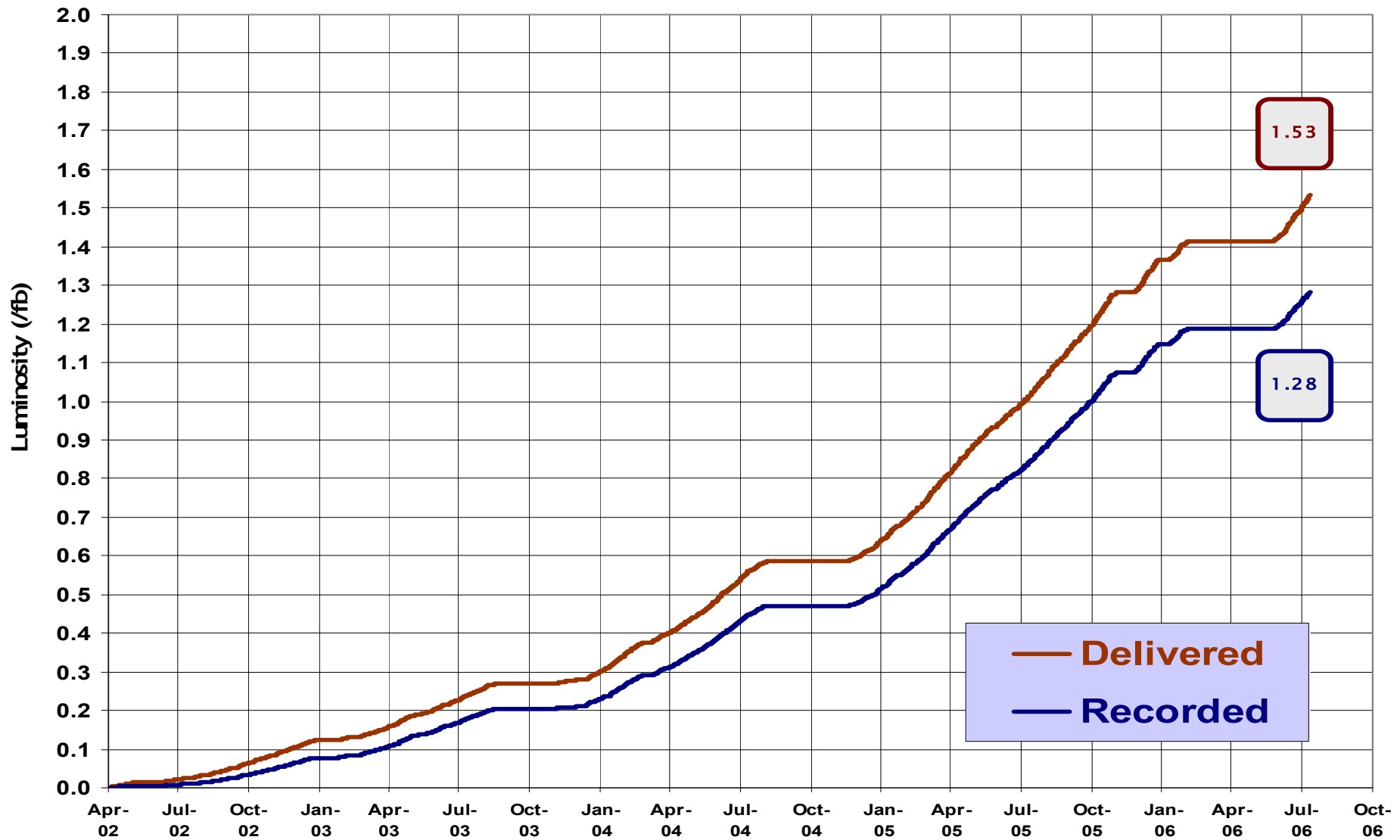


- A Silicon LV PS for interface boards failed on 7/28 (Fri).
 - The entire north half of SMT was not read out.
- Required opening one side of the detector to repair the PS.
 - It takes 2 hours to open and 3 hours to close one side of the detector.
 - The repair was estimated to take 3–4 hours.
- Thanks for the AD to schedule a long downtime in short notice.
- The cause of the loss of PS is not known yet.
 - Replaced the rack monitor and the power supply.
 - Re-terminated the flat cables between them.
- Other work that benefited from the access:
 - Replaced 2 FEBs in the A-layer PDTs.



Run II Integrated Luminosity

19 April 2002 - 30 July 2006



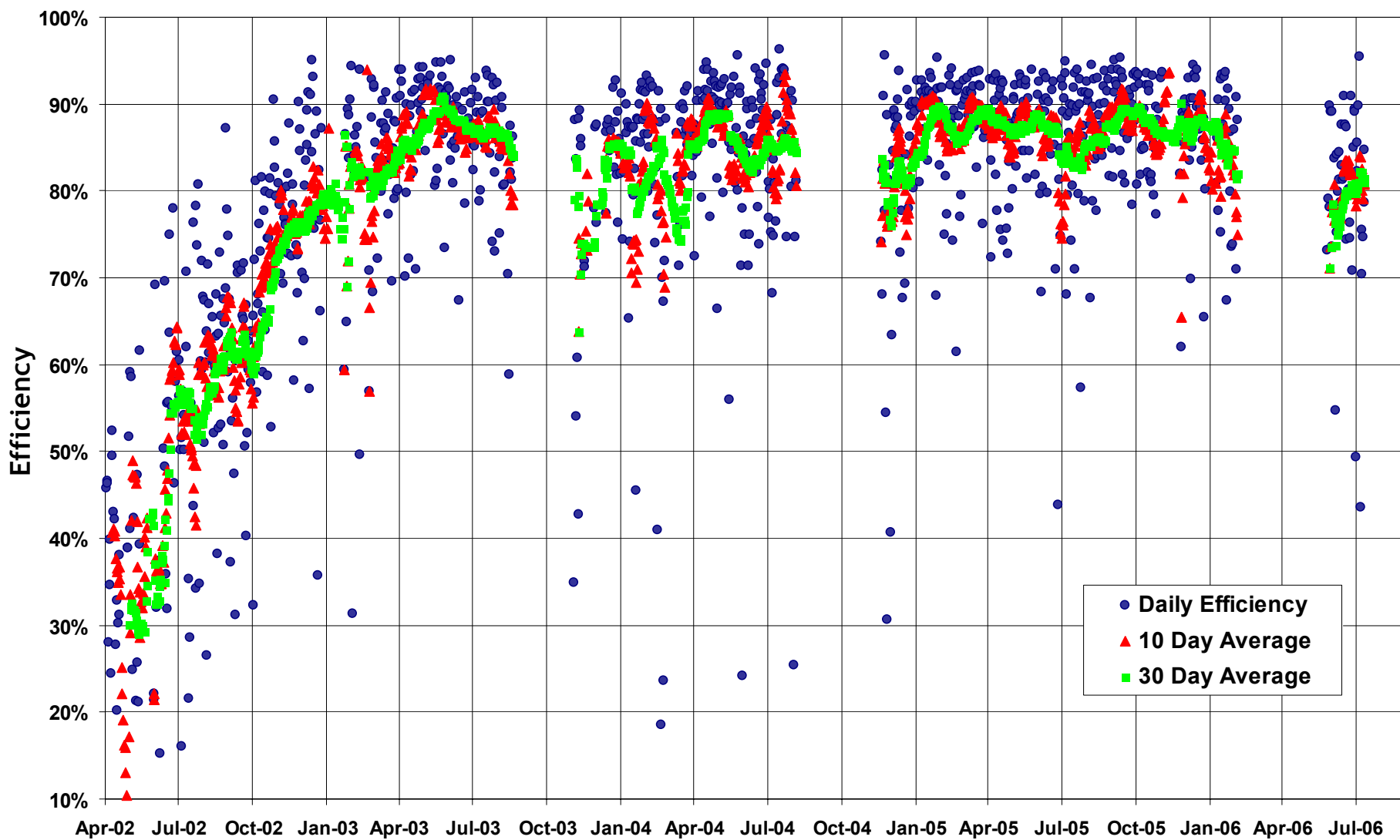
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Daily Data Taking Efficiency

19 April 2002 - 30 July 2006



31 July 2006

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